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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,254	09/11/2003	Tsutomu Saigo	031143	3545
23850	7590 12/19/2005		EXAM	INER
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			TIBBITS, PIA	FLORENCE
1725 K STRE SUITE 1000	EI, NW		ART UNIT	PAPER NUMBER
WASHINGTO	ON, DC 20006		2838	

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/659,254	SAIGO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Pia F. Tibbits	2838				
The MAILING DATE of this communication ap		th the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MONT e, cause the application to become ABA	CATION. Papely be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 C	October 2005.					
<i>,</i>						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-4 is/are pending in the application.)⊠ Claim(s) <u>1-4</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>3,4</u> is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) is/are objected to.	1 2					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to b	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
1.⊠ Certified copies of the priority document	· _ ·					
2. Certified copies of the priority document	ts have been received in Ap	oplication No				
Copies of the certified copies of the prior	rity documents have been	received in this National Stage				
application from the International Burea						
* See the attached detailed Office action for a list	of the certified copies not r	received.				
Attachment(s)	🗖					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		formal Patent Application (PTO-152)				

DETAILED ACTION

This Office action is in answer to the amendment filed 10/27/2005. Claims 1-4 are pending, of which claim 3 is amended.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Stuart** [5982143].

Stuart discloses in figures 1-15 an apparatus for regulating state of charge in a battery assembly including a plurality of secondary cells B1-Bn as unit cells which are connected in series [see figures 1 and 2], said apparatus comprising; voltage detecting means 12 for detecting respective voltages across said unit cells, and equalizing means for equalizing the respective voltages across said unit cells by transferring electric charge from the largest unit cell having the largest voltage across the cell to a capacitor CB1-CBN, and thereafter, by transferring the electric charge from said capacitor to the smallest unit cell having the smallest voltage across the cell, wherein said equalizing means transfers the electric charge from said largest unit cell to said capacitor so that the voltage of said capacitor may be made higher than the voltage across said largest unit cell. Stuart discloses a plurality of capacitors CB1-CBN to equalize the charge across the cells.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to make integral the plurality of capacitors in one capacitor in order to minimize the number of components, since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routing skill in the art. *In re Larson, 340 F.2d 965, 968, 144 USPQ 347, 349 (CCPA 1965). See MPEP 2144.04.*

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Allowable Subject Matter

3. Claims 3 and 4 are allowed.

Response to Arguments

4. Applicant's arguments with respect to the claims have been considered but are moot in view of the new grounds of rejection.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The prior art cited in PTO-892 and not mentioned above disclose related apparatus.

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Pia Tibbits whose telephone number is 571-272-2086. If unavailable, contact the Supervisory Patent Examiner Karl Easthom whose telephone number is 571-272-1989. The Technology Center Fax number is 571-273-8300.
- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PFT

December 6, 2005

Pia Tibbits

Primary Patent Examiner